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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/722,938	10/722,938 11/26/2003 Lars		03370-P0061A	9635	
	24126 75	590 08/15/2005		EXAM	EXAMINER	
		TEWARD JOHNSTO	N & REENS, LLC	WILLIAMS, THOMAS J		
	986 BEDFORD STREET STAMFORD, CT 06905-5619			ART UNIT	PAPER NUMBER	
			3683			

DATE MAILED: 08/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Assign Comments	10/722,938	SEVERINSSON, LARS			
Office Action Summary	Examiner	Art Unit			
	Thomas J. Williams	3683			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the) correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27.	<u>lune 2005</u> .				
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims	•				
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) 4-7 is/are withdrawn 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	n from consideration.				
9) The specification is objected to by the Examin	er.				
10)⊠ The drawing(s) filed on <u>27 June 2005</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)□ The oath or declaration is objected to by the E	a) \boxtimes accepted or b) \square objected to drawing(s) be held in abeyance. So action is required if the drawing(s) is a	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Application of the contract	ation No ived in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	arv (PTO-413)			
2) Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0-948) Information Disclosure Statement(s) (PT0-1449 or PT0/SB/08 Paper No(s)/Mail Date	Paper No(s)/Mail	Date Patent Application (PTO-152)			

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/722,938

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DETAILED ACTION

1. Acknowledgment is made in the receipt of the June 27, 2005.

Drawings

2. The drawings were received on June 27, 2005. These drawings are approved.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 99/37939 to Rinsma et al. in view of US 5,739,626 to Kojima et al.

Re-claims 1-3, Rinsma et al. teach a device in a vehicle brake arrangement for determining an applied brake force, comprising: an electric motor 8, a thrust gear 22 is driven by the motor, a thrust rod 24 applies a brake force when the gear is driven, an enclosed elastically deformable medium 52 (figure 3), a reaction force form the brake force acts upon the medium, a force sensor 50 transmits signals to the motor causing the motor to stop when a desired force has been attained. Rinsma et al. teach that the force sensor can take the form of a piezoelectric sensor. However Rinsma et al. are silent regarding the structure of the piezoelectric sensor, specifically whether the sensor includes a push rod disposed between the sensor element and the deformable medium.

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Kojima et al. teach a piezoelectric sensor in figure 1, wherein the sensor apparatus is equipped with a push rod 10 that is adapted to transmit a force applied from diaphragm 11 to the piezoelectric sensor 7. The sensor comprises a fixed cup (interpreted as sleeve 5a), the end of the push rod opposite the medium engages and is provided with the sensor 7, element 5 is interpreted as a guiding o-ring. It would have been obvious to one of ordinary skill in the art to have provided the brake apparatus of Rinsma et al. with the force sensor taught by Kojima et al., thus reducing costs by using an off the shelf sensor in the brake apparatus of Rinsma et al.

Response to Arguments

5. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lukasiewicz et al. teach a piezoelectric force sensor with a push rod.
- 7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiries concerning this communication or earlier communications from the examiner should be directed to Thomas Williams whose telephone number is 571-272-7128. The examiner can normally be reached on Monday-Thursday from 6:30 AM to 4:00 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor, can be reached at 571-272-7095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-6584.

TJW

August 11, 2005

THOMAS'NO THE P PATENT EDUCATED

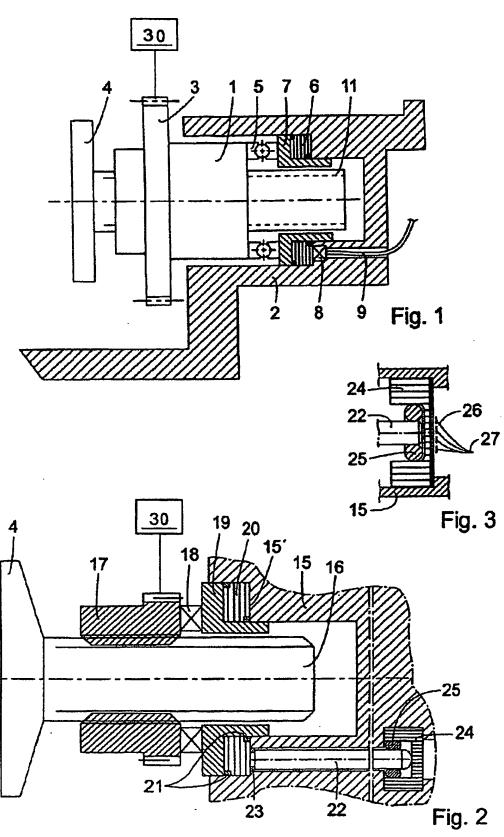
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8-11-05

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Replacement Sheet
Appln. No. 10/722,938
A Device in a Vehicle Brake Arrangement Lars Severinsson SSJR File 3370-P0061A

1/2



App. 84 8-1-05

Replacement Sheet
Appln. No. 10/722,938
A Device in a Vehicle Brake Arrangement
Lars Severinsson
SSJR File 3370-P0061A

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